PTO/SB/08A (10-96)
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Substitute for form 1449A/PTO

## INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet 1 of 3

Complete if Known					
Application Number	10/777,205				
Filing Date	February 13, 2004				
First Named Inventor	Terrance Dean MAXWELL et al.				
Group Art Unit	unknown				
Examiner Name	unknown				
Attorney Docket Number	58029-147				

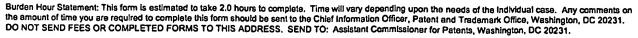
			U.S. PATENT DOCU	JMENTS	
Examiner nitials	Cite No.1	U.S. Patent Document  Kind Code <sup>2</sup> Number (# known)	Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
GC		5,034,929	Cobern et. al.	07-23-1991	
		5,307,885	Kuwana et. al.	05-03-1994	
		5,353,884	Misawa et. al.	10-11-1994	
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		5,875,859	Ikeda et. al.	03-02-1999	
		5,931,239	Schuh	08-03-1999	
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		3,823,787	Haworth et. al.	07-16-1974	
		5,314,030	Peterson	05-24-1994	
		6,244,361	Comeau et. al.	06-12-2001	
		6,158,529	Dorel	12-12-2000	_
		3,896,667	Jeter	07-29-1975	
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		4,428,626	Blau et al.	01-31-1984	
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	O:1-		Foreign Patent Docu	ment	Name of Patentee or	Date of Publication of	Pages, Columns, Lines.	T
Examiner Cite Initials No.1 Office3 Number	Number <sup>4</sup>	Kind Code <sup>5</sup> (if known)	Applicant of Cited Document	Cited Document MM-DD-YYYY	Where Relevant Passages or Relevant Figures Appear	T		
GC		GB	2,172,324		Schlumberger Canada	09-17-1986		Τ
		GB	2,172,325		Cambridge Radiation	09-17-1986		T
		GB	2,177,738		Cambridge Radiation	01-28-1987		T
		WO	90/07625		Cambridge Radiation	07-12-1990	<del> </del>	$\top$
		wo	90/08245		Cambridge Radiation	07-26-1990		T
		GB	2,307,537		Astec Developments	05-28-1997		T
		wo	99/24688		Telejet Technologies	05-20-1999		1
		EP	0,718,641 A		Baker Hughes Inc.	06-26-1996	···	T
		GB	2,017,191		Haglund	10-03-1979		T
GC		CA	2.314.575		Baker Hughes Inc.	01-23-2001		T

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Examiner	/Giovanna	Collins/	Date	09/03/2006
Signature	, 020 ( 033310	<b></b>	Considered	08/03/2006

<sup>\*</sup>EXAMINER: Initial If reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>&</sup>lt;sup>1</sup> Unique citation designation number. <sup>2</sup> See attached Kinds of U.S. Patent Documents. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.



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Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

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Substitute	o for form 1449A/I	РТО		Complete if Known			
				Application Number	10/777,205		
INFC	RMATIO	N DISC	LOSURE	Filing Date	February 13, 2004		
STA	TEMENT	BY AP	PLICANT	First Named Inventor	Terrance Dean MAXWELL et al.		
				Group Art Unit	Unknown		
	(use as many sheets as necessary)		Examiner Name	Unknown			
Sheet	2	of	3	Attorney Docket Number	58029-147		

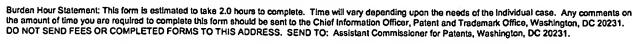
			U.S. PATENT DOC	JMENTS	
Examiner nitials*	Cite No.1	U.S. Patent Document  Kind Code <sup>2</sup> (If known)	Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Cctumns, Lines, Where Relevant Passages or Relevant Figures Appear
GC		5,547,031	Warren et al.	08-20-1996	
		6.158.533	Gillis et al.	12-12-2000	
		6,227,313	Davis et al.	05-08-2001	
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		2002/0053470	Noe et al.	05-09-2002	
		4,314,615	Sodder, Jr. et al.	02-09-1998	
		4,512,422	Knisley	04-23-1985	
$\perp$		4,612,987	Cheek	09-23-1986	
GC		5,467,834	Hughes et al.	11-21-1995	
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Examiner Initials*	Cite No.1	Office <sup>3</sup>	Foreign Patent Docum Number <sup>4</sup>	ment Kind Code <sup>s</sup> (if known)	Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	To
GC		CA	2,298,375		Schlumberger Canada	09-15-2000	F BHOUSE CHORGIST	T
		GB	2,356,207		McLoughlin	05-16-2001		1
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Examiner	/Giovanna Collins/	Date 08/03/2006
Signature		Considered

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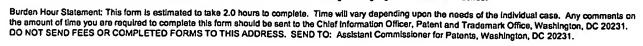
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Substitu	te for form 14498/P	то		Complete if Known			
			1001 001105	Application Number	10/777,205		
INFORMATION DISCLOSURE			ISCLOSURE	Filing Date	February 13, 2004		
STATEMENT BY APPLICANT				First Named Inventor	Terrance Dean MAXWELL et al.		
•				Group Art Unit	unknown		
(use as many sheets as necessary)				Examiner Name	unknown		
Sheet	3	of	3	Attorney Docket Number	58029-147		

		OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS	
Examiner Initials*	Cite No.1	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T2
GC		Warren T: "Technology Gains Momentum," Oil and Gas Journal, US, Pennwell Publishing Co., Tulsa, Vol. 96, No. 51, December 21, 1998, pp. 101-105.	
		"LoTAD (Trademark), Mechanical Friction- and Wear- Reduction Running String," product description of Weatherford Drilling & Intervention Services website www.weatherford.com, 2 pp.	
GC		"LoTAD (Trademark), product description of Weatherford Drilling & Intervention Services website www.weatherford.com, 2pp.	
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Signature /GIOVanna COITINS/ Considered	Examiner Signature	/Giovanna Collins/	Date Considered	08/03/2006
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<sup>&</sup>lt;sup>1</sup> Unique citation designation number. <sup>2</sup> Applicant is to place a check mark here if English language Translation is attached.



<sup>\*</sup>EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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Under the Paperwork Nessella Francis	Cor	Complete if Known		
Substitute for form 1449/PTO	Application Number	10/777.205		
	Filing Date	February 13, 2004		
INFORMATION DISCLOSURE	First Named Inventor	MAXWELL, Terrance D.		
STATEMENT BY APPLICANT	Art Unit	3672		
(Use as many sheets as necessary)	Examiner Name	unknown		
	Attorney Docket Number	58029-147		

U. S. PATENT DOCUMENTS Pages, Calumns, Lines, Where Name of Patentee or ublication Date **Document Number** Cite No. Examine Applicant of Cited Document Relevant Passages or Relevant MM-DD-YYYY Figures Appear Number-Kind Code<sup>2</sup> (Flatoure) <sup>US-</sup> 5,060,737 10-29-1991 Mohn GC Rosenhauch et. al. 03-15-1994 <sup>US-</sup> 5,293,945 GC US-LIS-ับร-115. US-USusus-US-บร์-USus-US-US-US-US.

		FORE	IGN PATENT DOCU	MENTS		
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Translation is attached.

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/Giovanna Collins/

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## INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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of 1

Sheet 1

Complete if Known		
Application Number	10/777,205	
Filing Date	February 13, 2004	
First Named Inventor	Terrance D. Maxwell	
Art Unit	3672	
Examiner Name	Unknown	
Attorney Docket Number	58029-147	

				DOCUMENTS	
Examiner Initials*	Cite No.1	Document Number  Number-Kind Code <sup>2 (f known)</sup>	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
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Examiner Initials*	Cite No.	Foreign Patent Document	Publication Date	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages	
		Country Code <sup>3</sup> Number <sup>4</sup> Kind Code <sup>5</sup> (if known)	MM-DD-YYYY		Or Relevant Figures Appear	۲°
· GC		CA 1,177,057	10-30-1984	Garrett		
GC		EP 1,371,810 A1	12-17-2003	Halliburton		
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Sheet 1

## INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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of 1

Complete if Known			
Application Number	10/777,205		
Filing Date	February 13, 2004		
First Named Inventor	Terrance D. Maxwell		
Art Unit	3672		
Examiner Name	Unknown		
Attorney Docket Number	58029-147		

			U. S. PATEN	DOCUMENTS	
Examiner Initials*	Cite No. <sup>1</sup>	Document Number  Number-Kind Code <sup>2 (F known)</sup>	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
GC		<sup>US-</sup> 2,783,028	02-26-1957	Jamison et. al.	
GC		<sup>US-</sup> 5,603,386	02-18-1997	Webster	
GC		US- 3,180,437	04-27-1965	Keliner et. al.	
GC		<sup>US-</sup> 4,185,704	01-29-1980	Nixon, Jr.	
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		FORE	IGN PATENT DOCL	JMENTS		
Examiner Initials*	Cite No.1	Foreign Patent Document	Publication Date	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages	
		Country Code <sup>3</sup> Number <sup>4</sup> Kind Code <sup>8</sup> (if known)	MM-DD-YYYY		Or Relevant Figures Appear	T⁵
GC		EP 0 452 126 A2	10-16-1991	Halliburton		
· GC		WO 98/34003	08-06-1998	Baker Hughes		
GC		EP 0 497 422 A1	08-05-1992	Anadrill		
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Signature	/Giovanna Collins/		00/00/0006
Signature	/GIOVAIMA COIIIMS/	Considered	08/03/2006
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	respond to a collection of Information unless it contains a valid OMB control num  Complete if Known		
Substitute for form 1448/PTO	Application Number	10/777,205	
	Filing Date	February 13, 2004	
INFORMATION DISCLOSURE	First Named Inventor	Terrance Dean Maxwell et. al.	
STATEMENT BY APPLICANT	Art Unit	3672	
(Use as many sheets as necassary)	Examiner Name	Glovanna M. Collins	
or 1	Attorney Dockst Number	58029-147 (now 16463-174)	

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Examiner Initials*	Cite No.1	Number-Kind Code <sup>2</sup> (7	Publication Date MM-DD-YYYY	Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
GC	<del>                                     </del>	US- 4,377,207	03-22-1983	Kofahl	
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Examiner Signature	/Giovanna Collins/	Date Considered	08/03/2006

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the appropriate symbols as indicated on the document circle vivir o standard \$1.10 is possible. Population of the public which is to file (and by the Translation of Information is required by \$7 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by \$5 U.S.C. 122 and \$7 CFR 1.14. This collection is estimated to take 2 hours to complete underlying preparing, and submitting the completed application form to the USPTO. Three will vary depending upon the individual case. Any comments on the emount of time you require to complete this form and/or suggestions for reducing file burden, should be sent to the Chief Information Officer, U.S. Petern and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1459.

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STATEMENT BY APPLICANT	Art Unit	3672			
(Use as many sheets as necessary)	Examiner Name	Giovanna M. Collins			

Attorney Docket Number | 58029-147 (now 16463-174) of 11 Sheet 11 U. S. PATENT DOCUMENTS Pages, Columns, Unes, Where Relevant Passages or Relevant Figures Appear Publication Date Name of Patentes of Examiner Cite No.1 Document Number Applicant of Cited Document Initials' Number-Kind Code<sup>2 of Amend</sup> US- 5,447,200 Dedora et al. 09-05-1995 GC US- 4,714,110 12-22-1987 Dysarz 02-16-1993 du Chaffaut US-5,186,264 GC US-บธ-US. บร us. US-USiis. US ŪS-Ü\$-US-ÚS-US-US-

		FOREI	GN PATENT DOCU	MENTS.		_
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